Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 01/07/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil. (PWD BCSR 2018-19,P-7,I-2.23)						
	Yoga Platform	10	1.30	1.30	2.05	34.65	
	For walls	2	19.56	1.00	0.75	29.34	
		2	11.20	1.00	0.75	16.80	
						80.79	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 02/07/2020						
5	**Providing and Filling in foundation with granite/trap broken metal 100 mm** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications (PWD BCSR 2018-19,P-6,I-2.15)						
	Yoga Platform	10	1.30	1.30	0.30	5.07	
						5.07	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 12/07/2020						
6	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Yoga Platform	10	1.60	1.60	0.15	3.84	
						3.84	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 19/07/2020						
8 6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	For walls	2	19.56	1.00	0.15	5.87	
		2	11.20	1.00	0.15	3.36	
	Plinth beam all round	2	18.75	0.30	0.15	1.69	
		2	12.03	0.30	0.15	1.08	
						12.00	Cum

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19/7/20

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 25/08/2020						
	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Flooring	1	18.20	12.10	0.15	33.03	
						33.03	Cum

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Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 20/07/2020						
7	**Providing and constructing granite / trap / basalt size stone masonry in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.6)						
	Yoga platform	2	19.26	0.60	0.60	13.87	
		2	11.50	0.60	0.60	8.28	
						22.15	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 22/07/2020						
8	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19.P-23.I-5.9)						
	Yoga platform	2	19.11	0.50	0.40	7.64	
		2	11.65	0.50	0.40	4.66	
						12.30	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 24/07/2020						
9	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Yoga platform- Plinth bed	2	19.11	0.45	0.10	1.72	
		2	11.65	0.45	0.10	1.05	
						2.77	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on:12/09/2020						
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Flooring	1	12.10	18.20	0.15	33.03	
						33.03	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 15/01/2021						
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Yoga Platform						
	Coping on walls	2	18.46	0.23	0.10	0.85	
		2	12.33	0.23	0.10	0.57	
						1.42	Cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 27/09/2020						
10	**Providing and laying in position reinforced cement concrete of Design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6						
	Footing	10	1.50	1.50	0.40	9.00	
	Pedestal	10	0.60	0.60	1.35	4.86	
	Plinth beam	2	18.96	0.30	0.45	5.12	
	"	2	11.80	0.30	0.45	3.19	
						22.17	cum

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 25/07/2020						
11	**Providing T.M.T. steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS for TMT Bars Fe 550 (P W D BCSR, 2018-19 P-17, I-4.46.3)						
	as per calculation sheet attached P.No. 86					**1.630**	tonne

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25/7/20

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 28/07/2020						
12	**Providing and removing centering, shuttering, strutting, propping etc.,** and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(PWD BCSR 2018-19,P-15,I-4.31)						
	Yoga platform	20	1.30	—	0.40	10.40	
	Pedastal	20	0.60	—	1.35	16.20	
		20	0.60	—	1.35	16.20	
						42.80	sqm

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 06/07/2021						
17	**Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite.** laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P W D SR 2018-19, P-108 I-14.52)						
	Yoga platform	1	18.20	12.10		220.22	
	Seating-South side	1	17.60	0.60		10.56	
	West side	1	12.10	0.60		7.26	
	Coping slab						
	Yoga platform 2*(18.7+12.1)	2	18.70	0.25		9.35	
		2	12.10	0.25		6.05	
						253.44	sqm

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 09/09/2020						
19	**Fabrication supplying and erecting M.S. tubular trusses** of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and						
	as per steel calculation vide p no 89					**10158.80**	kg

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Excel Measurement Sheet

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 07/01/2021						
21	Providing and fixing 6mm clear **/ opal white / solar / bronze / blue /** green tinted multi wall poly carbonate sheet for tubular structure. The work including cost of all materials, labour charges and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lifts, transportation, loading and unloading and all other incidental charges etc. complete as per specification and directions of the engineer in charge of the work						
	Allaround parapet wall (7.81+0.3)	2	8.11	18.60		**301.69**	sqm

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Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 15/01/2021						
14	**Providing and constructing burnt brick masonry** with approved quality of modular bricks of standard size of class designation 75 **(Machine moulded Wirecut bricks)** with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete						
	Yoga platform	2	18.66	0.23	1.00	8.58	
		2	12.10	0.23	1.00	5.57	
	Seating support wall	19	0.50	0.23	0.45	0.98	
						15.13	
	Deduct						
	yoga platform	1	2.00	0.23	1.00	(-) **0.46**	
						14.67	sqm

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Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
15	**Providing ruled pointing to coursed stone masonry** with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.						
	Yoga platform						
	SSM side wall	2	18.66	—	0.45	16.79	
		2	12.10	—	0.45	10.89	
	Parapet wall	2	18.66	—	1.00	37.32	
		2	12.10	—	1.00	24.20	
						89.20	sqm

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
16	KSRB 15-16.2 : Providing and finishing **external walls in one coat with waterproof cement paint of approved brand** and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications						
	Yoga platform						
	Parapet wall	2	18.66		1.00	37.32	
		2	12.35		1.00	24.70	
		2	18.20		1.00	36.40	
		2	12.10		1.00	24.20	
	seating (0.45+0.23+0.45) =1.13	15	1.13		0.45	7.63	
	(0.45+0.45) =0.90	4	0.90		0.45	1.62	
						131.87	

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Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 28/07/2021						
20	**Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for** verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. **Ramps or Staircase for physically challenged.**						
	Yoga platform	3	1.9	—	1.2	6.84	
						6.84	Sqm

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Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 21/08/2021						
13	KSRB 2-3:**Filling available excavated earth** (excluding rock) in sides of foundations and profile correction in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with a lead up to 50 m. and lift up to 1.5 m. including cost of all labour complete as per specifications (PWD BCSR 2018-19,P-6.I-2.10)						
	Yoga platform	1	12.10	18.20	0.60	132.13	
						132.13	

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CONSTRUCTION OF YOGA PLATFORM

Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 06/07/2021						
18	Providing and laying flooring for corridors/lobbies using combination of pre polished 19 mm thick water cut/gang saw Grey Granite, Black Granite, and strips of 50mm wide pre flamed grey granite using pre polished grey granite 19mm thick 76%, Pre polished black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @ 22% over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., complete. (P W D SR 2018-19, P-108 I-14.48.1)						
	SKIRTING						
	Yoga Platform Skirting						
	Skirting(0.6+1.4+0.6)	18	2.60		0.10	4.68	
	Front	16	0.30		0.10	0.48	
	corners	3	0.75		0.10	0.23	
						5.39	
	Deduct opening						
	yoga platform	1	1.50		0.10	(-) **0.15**	
						5.24	sqm

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Beside Idol Immersion Tank at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
24	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.						
	Yoga platform						
	Vetical columns (2*3.142*75)	10	0.47		4.00	18.85	
	Yoga platform Truss 100 X 50mm						
	Straight	5	0.3		13.41	20.12	
	Angle	10	0.3		6.90	20.70	
	Mid straight truss	5	0.3		1.52	2.28	
	straigth truss (both sides) a	10	0.3		1.32	3.96	
	b	10	0.3		1.12	3.36	
	c	10	0.3		0.91	2.73	
	d	10	0.3		0.70	2.10	
	e	10	0.3		0.50	1.50	
	f	10	0.3		0.40	1.20	
	g	10	0.3		0.30	0.90	
	Tie members (both sides) a	10	0.3		1.73	5.19	
	b	10	0.3		1.58	4.74	
	c	10	0.3		1.44	4.32	
	d	10	0.3		1.32	3.96	
	e	10	0.3		1.23	3.69	
	Purlins	14	0.30		18.60	78.12	
	Plate:						
	20mm Top Plates	10	0.61	0.61		3.71	
	Angle below seating (ISA 5050)	1	0.2		18.20	3.64	
		1	0.2		12.10	2.42	
						187.49	sqm

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Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 13/06/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil. (PWD BCSR 2018-19,P-7,I-2.23)						
	Gazebo big (2*3.142*4.5)	1	28.50	1.50	2.20	94.05	
	(2*3.142*4.01)	1	25.30	0.80	0.60	12.14	
						106.19	Cum
	Pre-measurement Recorded on: 15/06/2020						
5	**Providing and Filling in foundation with granite/trap broken metal 100 mm** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications (PWD BCSR 2018-19,P-6,I-2.15)						
	Gazebo big	1	28.50	1.20	0.30	10.26	
		1	30.00	0.8	0.3	7.2	
						17.46	Cum
	Pre-measurement Recorded on: 16/06/2020						
6	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-19, P-12 I-4.1)						
	Gazebo big	1	28.50	1.50	0.15	6.41	
		1	30.00	0.90	0.15	4.05	
	For flooring (3.142*3.9*3.9)	1	47.8		0.15	7.17	
	For Steps	1	2.25	1.125	0.15	0.38	
						18.01	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 08/07/2020						
7	**Providing and constructing granite / trap / basalt size stone masonry in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.6)						
	Gazebo Big	1	28.50	0.90	0.40	10.26	
	2nd course	1	28.50	0.75	0.40	8.55	
	3rd course	1	28.50	0.6	0.8	13.68	
	outer wall	1	30.00	0.6	0.45	8.10	
						40.59	Cum
	Pre-measurement Recorded on: 11/07/2020						
8	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.9)						
	Gazebo Big	1	28.50	0.60	0.60	10.26	
		1	30.00	0.60	0.60	10.80	
						21.06	Cum
	Pre-measurement Recorded on: 11/07/2020						
9	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD BCSR 2018-19, P-13 I-4.6)						
	Gazebo Big						
	Slab projections	1.00	28.50	1.40	0.15	5.99	
	Gazebo Big	1	30.00	0.23	0.10	0.69	
		1	30.00	0.45	0.15	2.03	
						8.70	Cum
	Pre-measurement Recorded on: 15/07/2020						
13	**Filling available excavated earth (excluding rock)** in sides of foundations and profile correction in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with a lead up to 50 m. and lift up to 1.5 m. including cost of all labour complete as per specifications (PWD BCSR 2018-19,P-6,I-2.10)						
	Gazebo Big	1	28.50	0.35	0.45	4.49	
		1	30.00	0.25	0.45	3.38	
						7.86	Cum

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Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	*SPECIFICATIONS*	*No*	*L*	*B*	*D*	*QUANTITY*	*UNIT*
	Pre-measurement Recorded on: 16/09/2020						
14	**Providing and constructing burnt brick masonry with approved quality of modular bricks** of standard size of class designation 75 (Machine moulded Wirecut bricks) with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete (P W D SZSR 2018-19, P-27 I-6.20)						
	Gazebo Big	1	30.00	0.23	0.80	5.52	
	Seating support wall	15	0.45	0.23	0.45	0.70	
	Steps	1	1.13	1.00	0.20	0.23	
						6.44	
	Deduction						
	Gazebo big	1	2.25	0.23	0.80	**0.41**	
						6.03	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on:15/06/2021						
15	**Providing ruled pointing to coursed stone masonry** with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P W D BCSR 2018-19, P-113 I-15.4)						
	Gazebo big (2*3.142*4.77)	1	30.00	—	0.70	21.00	
	Seating support wall	30	0.45	—	0.50	6.75	
	Basement	1	30.00	—	0.45	13.50	
						41.25	sqm
	Pre-measurement Recorded on:15/06/2021						
16	**Providing and finishing external walls in one coat with waterproof cement paint of approved brand** and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P W D BCSR 2018-19, P-118 I-15.54.1)						
	Gazebo big						
	side wall	1	30.00	—	0.70	21.00	
	Seating support wall	30	0.45	—	0.45	6.08	
						27.08	sqm
	Pre-measurement Recorded on: 15/06/2021						
17	**Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite.** laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P W D SR 2018-19, P-108 I-14.52)						
	Gazebo big (2*3.142*4.23)	1	26.60	0.60	—	15.96	15.96
						15.96	sqm

23.26

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 15/07/2021						
18	**Providing and laying flooring for corridors/lobbies using combination of pre polished 19 mm thick water cut/gang saw Grey Granite,** Black Granite, and strips of 50mm wide pre flamed grey granite using pre polished grey granite 19mm thick 76%, Pre polished black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @22% over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., complete.						
	Gazebo big (3.142*9*9)/4	1	63.61			63.61	
	opening	1	2.00	0.23		0.46	
	Ramp	1	2.10	1.00		2.10	
	steps .....Rise	3	1.00	0.15		0.45	
	tread	2	1.00	0.25		0.50	
						67.12	
	Gazebo big						
	Skirting (2*3.142*4.02)	1	25.26		0.10	2.53	
	support sides (18*2)	36	0.50		0.10	1.80	
						4.33	
	Deduction						
	Gazebo big	1	2.00		0.10	**0.20**	
						4.13	
						71.25	sqm
	Pre-measurement Recorded on: 29/07/2020						
19	**Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m.** The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification.						
	as per calculation sheet vide page no 28.					4217.93	kg

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 16/09/2020						
23	**Providing and fixing new Mangalore tile on existing reepers** including cost of materials, labour, complete as per specifications. Specifications						
	Gazebo	8	0.5	3.6	4.35	62.64	
						62.64	sqm
24	**Providing and applying enamel metal paint two coats** (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. p.no.121.i.no.15.74						
	Gazebo big						
	MS tubular circular section (2*3.142*0.075)	8	0.47	—	4.00	15.08	
	Horizontal bars (0.15+0.5)*2	8	0.4	—	2.51	8.03	
	Rafter (0.1+0.05)*2	8	0.3	—	5.80	13.92	
	Rafter 100 x 50 (0.1+0.05)*2	8	0.3	—	5.63	13.51	
	Purlins 50 x 25(0.05+0.025)*2	8	0.15	—	38.15	45.78	
	Top Gusset Plate 8mm thk	8	0.17	0.17	—	0.23	
	12mm Gusset Plates (2 nos.)	2	0.3	0.30	—	0.18	
	Angle plate below seating	1	0.2	—	20.60	4.12	
						100.86	sqm
	Pre-measurement Recorded on: 16/09/2020						
25.00	**Providing Mangalore Ridge tiles set in C.M. 1:2** and pointed with C.M. 1:2. including cost of materials, labour, HOM complete as per specifications.(P W D SR 2018-19, P-266, I-37.7)						
	Gazebo big	8	6.50			52.00	
						52.00	m

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Big

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 28/07/2021						
20	Providing and fixing **304 - grade stainless steel** hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged.						
	Gazebo Big	3	2.1	—	1.2	7.56	
						7.56	Sqm

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Assistant Engineer
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verified & found ok

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 10/06/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) -						
	Gazebo small 1	6	3.30	1.00	1.50	29.70	
						29.70	Cum
	Pre-measurement Recorded on: 11/06/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) -						
	Gazebo small 2	6	3.30	1.00	1.50	29.70	
						29.70	Cum
	Pre-measurement Recorded on: 12/06/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) -						
	Gazebo small 3	6	3.30	1.00	1.50	29.70	
						29.70	Cum
	Pre-measurement Recorded on: 13/06/2020						
5	**Providing and Filling in foundation with granite/trap broken metal 100** mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications (PWD BCSR 2018-19.P-6.I-2.15)						
	Gazebo small 1 (3.77+2.62)/2	6	3.30	1.00	0.30	5.94	
	Gazebo small 2 (3.77+2.62)/2	6	3.30	1.00	0.30	5.94	
	Gazebo small 3 (3.77+2.62)/2	6	3.30	1.00	0.30	5.94	
						17.82	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 19/06/2020						
6	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, **with 40mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-19, P-12 I-4.1)						
	Gazebo small 1 (3.77+2.62)/2	6	3.30	1.00	0.15	2.97	
	Gazebo small 2 (3.77+2.62)/2	6	3.30	1.00	0.15	2.97	
	Gazebo small 3 (3.77+2.62)/2	6	3.30	1.00	0.15	2.97	
						8.91	Cum

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Assistant Engineer
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19/6/20

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 08/08/2020						
6	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, **with 40mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-19, P-12 I-4.1)						
	Flooring (0.5*3.3) (6*3)	18	1.65	3.10	0.15	13.81	
	Steps	3	1.50	1.00	0.15	0.68	
						14.49	Cum

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Assistant Engineer
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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 22/06/2020						
7	**Providing and constructing granite / trap / basalt size stone masonry in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.6)						
	Gazebo small 1 (3.77+2.62)/2	6	3.30	0.75	0.60	8.91	
	2nd course	6	3.30	0.60	0.60	7.13	
						16.04	Cum
	Pre-measurement Recorded on: 25/06/2020						
7	**Providing and constructing granite / trap / basalt size stone masonry in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.6)						
	Gazebo small 2 (3.77+2.62)/2	6	3.30	0.75	0.60	8.91	
	2nd course	6	3.30	0.60	0.60	7.13	
						16.04	Cum
	Pre-measurement Recorded on: 26/06/2020						
7	**Providing and constructing granite / trap / basalt size stone masonry in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.6)						
	Gazebo small 3 (3.77+2.62)/2	6	3.30	0.75	0.60	8.91	
	2nd course	6	3.30	0.60	0.60	7.13	
						16.04	Cum
	Pre-measurement Recorded on: 28/06/2020						
8	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.9)						
	Gazebo small 1 (3.77+2.62)/2	6	3.30	0.50	0.40	3.96	
	Gazebo small 2 (3.77+2.62)/2	6	3.30	0.50	0.40	3.96	
	Gazebo small 3 (3.77+2.62)/2	6	3.30	0.50	0.40	3.96	
						11.88	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 01/07/2020						
9	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, **with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD BCSR 208-19, P-12 I-4.6)						
	Gazebo small 1 (DPC)	6	3.3	0.5	0.10	0.99	
	Gazebo small 2 (DPC)	6	3.3	0.5	0.10	0.99	
	Gazebo small 3 (DPC)	6	3.3	0.5	0.10	0.99	
	Steps	3	1.5	1	0.10	0.45	
						3.42	Cum
	Pre-measurement Recorded on: 15/07/2020						
13	**Filling available excavated earth** (excluding rock) in sides of foundations and profile correction in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with a lead up to 50 m. and lift up to 1.5 m. including cost of all labour complete as per specifications (PWD BCSR 2018-19,P-6,I-2.10)						
	Gazebo Small 1	6	3.30	0.15	0.50	1.49	
		3	3.30	2.60	0.50	12.87	
	Gazebo Small 2	6	3.30	0.15	0.50	1.49	
		3	3.30	2.60	0.50	12.87	
	Gazebo Small 3	6	3.30	0.15	0.50	1.49	
		3	3.30	2.60	0.50	12.87	
						43.07	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 09/09/2020						
14	**Providing and constructing burnt brick masonry with approved quality of modular bricks** of standard size of class designation 75 (Machine moulded Wirecut bricks) with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete (P W D SZSR 2018-19, P-27 I-6.20)						
	Gazebo small 1 (3.6+3.3)/2	6	3.45	0.23	0.70	3.33	
	Gazebo small 2 (3.6+3.3)/2	6	3.45	0.23	0.70	3.33	
	Gazebo small 3 (3.6+3.3)/2	6	3.45	0.23	0.70	3.33	
	Seating support wall (11*3)	33	0.45	0.23	0.50	1.71	
	Steps	3	1.50	1.00	0.15	0.68	
						12.38	
	Deduction						
	Gazebo small	3	1.50	0.23	0.80	**0.83**	
						11.55	Cum
15	**Providing ruled pointing to coursed stone masonry** with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P W D BCSR 2018-191, P-113 I-15.4)						
	Gazebo small 1						
	Basement	6	3.60		0.45	9.72	
	Brick side wall (both sides)	12	3.45		0.70	28.98	
	Seating support wall (both sides)	22	0.45		0.50	4.95	
	Gazebo small 2						
	Basement	1	3.60		0.45	1.62	
	Brick side wall	12	3.45		0.70	28.98	
	Seating support wall	22	0.45		0.50	4.95	
	Gazebo small 3						
	Basement	1	3.60		0.45	1.62	
	Brick side wall	12	3.45		0.70	28.98	
	Seating support wall	22	0.45		0.50	4.95	
						114.75	Sqm

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
16	KSRB 15-16.2 : **Providing and finishing external walls in one coat with waterproof cement paint of approved brand** and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P W D BCSR 2018-19, P-118 I-15.54.1)						
	Gazebo small 1						
	Brick side wall (both sides)	12	3.45	–	0.70	28.98	
	Seating support wall (both sides)	22	0.45	–	0.50	4.95	
	Gazebo small 2						
	Brick side wall	12	3.45	–	0.70	28.98	
	Seating support wall	22	0.45	–	0.50	4.95	
	Gazebo small 3						
	Brick side wall	12	3.45	–	0.70	28.98	
	Seating support wall	22	0.45	–	0.50	4.95	
						101.79	sqm
	Pre-measurement Recorded on: 15/06/2021						
17.00	**Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite.** laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P W D SR 2018-19, P-108 I-14.52)						
	Seating						
	Gazebo small 1	5	3.30	0.50	–	8.25	
	Gazebo small 2	5	3.30	0.50	–	8.25	
	Gazebo small 3	5	3.30	0.50	–	8.25	
	Coping slab						
	Gazebo small 1	6	3.45	0.25	–	5.18	
	Gazebo small 2	6	3.45	0.25	–	5.18	
	Gazebo small 3	6	3.45	0.25	–	5.18	
						40.28	sqm

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 15/07/2021						
18.00	**Providing and laying flooring for corridors/lobbies using combination of pre polished 19 mm thick** water cut/gang saw Grey Granite, Black Granite, and strips of 50mm wide pre flamed grey granite using pre polished grey granite 19mm thick 76%, Pre polished black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @22% over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., complete.						
	GAZEBO SMALL						
	Gazebo small 1	1	3.30	6.20		20.46	
	triangle (0.5*6.2)	2	3.10	1.85		11.47	
	opening	1	1.50	0.23		0.35	
	Ramp	1	0.75	1.80		1.35	
	steps.....Rise	3	0.75	0.15		0.34	
	tread	2	0.75	0.30		0.45	
	Gazebo small 2	1	3.30	6.20		20.46	
	triangle (0.5*6.2)	2	3.10	1.85		11.47	
	opening	1	1.50	0.23		0.35	
	Ramp	1	0.75	1.80		1.35	
	steps.....Rise	3	0.75	0.15		0.34	
	tread	2	0.75	0.30		0.45	
	Gazebo small 3	1	3.30	6.20		20.46	
	triangle (0.5*6.2)	2	3.10	1.85		11.47	
	opening	1	1.50	0.23		0.35	
	Ramp	1	0.75	1.80		1.35	
	steps.....Rise	3	0.75	0.15		0.34	
	tread	2	0.75	0.30		0.45	
	Skirting					**103.24**	
	Gazebo small 1						
	skirting	6	3.30	—	0.10	1.98	
	supports (sides) (11*2)	22	0.45	—	0.10	0.99	
	Gazebo small 2						
	skirting	6	3.30	—	0.10	1.98	
	supports (sides) (11*2)	22	0.45	—	0.10	0.99	
	Gazebo small 3						
	skirting	6	3.30	—	0.10	1.98	
	supports (sides) (11*2)	22	0.45	—	0.10	0.99	
	Deduction					**8.91**	

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Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Gazebo small (1,2,3)	3	1.50		0.10	**0.45**	
						8.46	
						111.70	sqm
	Pre-measurement Recorded on: 11/08/2020						
19.00	**Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m.** The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification.						
	for roofing	as per calculation sheet vide page-88				8815.28	kg

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 19/09/2020						
23.00	**Providing and fixing new Mangalore tile** on existing reepers including cost of materials, labour, complete as per specifications. Specifications (P W D SR 2018-19, P-267, I-37.9)						
	Gazebo small 1	6	0.50	3.30	4.65	46.04	
	Gazebo small 2	6	0.50	3.30	4.65	46.04	
	Gazebo small 3	6	0.50	3.30	4.65	46.04	
						138.11	sqm
	Pre-measurement Recorded on: 19/09/2020						
25.00	**Providing Mangalore Ridge tiles** set in C.M. 1:2 and pointed with C.M. 1:2. including cost of materials, labour, HOM complete as per specifications.(P W D SR 2018-19, P-266, I-37.7)						
	Gazebo small 1	6	6.00	—	—	36.00	
	Gazebo small 2	6	6.00	—	—	36.00	
	Gazebo small 3	6	6.00	—	—	36.00	
						108.00	Mtr
~~25~~ 24	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. p.no.121.i.no.15.74						
	Gazebo small (3nos)						
	MS tubular circular section (6*3) (2*3.142*0.075)	18	0.47	—	3.75	31.81	
	Horizontal bars ISMC150 (6*3) (0.15+0.5)*2	18	0.4	—	3.30	23.76	
	Rafter 100 x 50 x 6mm thk (12*3) (0.1+0.05)*2	36	0.3	—	4.40	47.52	
	Purlins (50 x 25 x 4mm) (6*3) (0.05+0.025)*2	18	0.15	—	37.31	100.74	
	Top Gusset Plate 8mm thk (6*3)	18	0.17	0.17	—	0.53	
	12mm Gusset Plates (2*3)	6	0.30	0.30	—	0.55	
	Angle plate below seating (5*3)	15	0.2	—	3.30	9.90	
						214.82	Sqm

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Construction of Gazebo Small

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 28/07/2021						
20	Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged.						
	Gazebo small 1	3	1.9	—	1.2	6.84	
	Gazebo small 2	3	1.9	—	1.2	6.84	
	Gazebo small 3	3	1.9	—	1.2	6.84	
						20.52	Sqm

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on: 27/07/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil.						
	Gym area 1	1	17.00	17.00	0.30	86.70	
		2	14.40	0.45	0.30	3.89	
		2	9.70	0.45	0.30	2.62	
						93.21	Cum
	Pre-measurement Recorded on: 29/07/2020						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil.						
	Gym area 2	1	15.00	15.00	0.30	67.50	
		2	12.60	0.45	0.30	3.40	
		2	9.70	0.45	0.30	2.62	
						73.52	Cum

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on: 26/07/2020						
3	Earth work for **lowering and levelling** the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required & utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification.						
	Gym area 1	1	17.00	17.00	0.30	86.70	
		2	14.40	0.45	0.30	3.89	
		2	9.70	0.45	0.30	2.62	
	Gym area 2	1	15.00	15.00	0.30	67.50	
		2	12.60	0.45	0.30	3.40	
		2	9.70	0.45	0.30	2.62	
						166.73	**Cum**
	Pre-measurement Recorded on: 28/07/2020						
6	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, **with 40mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Gym area1	1	13.80	10.00	0.15	20.70	
	Gym area 1below kerb	2	13.80	0.45	0.10	1.24	
		2	10.00	0.45	0.10	0.90	
	Total					**22.84**	Cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on: 30/07/2020						
6	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, **with 40mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,						
	Gym area 2	1	12.00	10.00	0.15	18.00	
	Gym area 2 below kerb	2	12.00	0.45	0.10	1.08	
		2	10.00	0.45	0.10	0.90	
	Total					**19.98**	Cum
	Pre-measurement Recorded on:10/08/2021						
9	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Gym Area 1	1	13.8	10	0.12	16.56	
	Gym Area 2	1	12	10	0.12	14.40	
						30.96	Cum

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on: 10/08/2021						
35	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4** with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.						
	Gym Area 1- Nside	1	14.10			14.10	
	S Side	1	14.10			14.10	
	Eside	1	10.00			10.00	
	W Side	1	10.00			10.00	
	Gym Area 2- Nside	1	12.30			12.30	
	S Side	1	12.30			12.30	
	Eside	1	10.00			10.00	
	W Side	1	10.00			10.00	
	Near Big Gazebo-approch						
	west side (1.5+4)	1	5.50			5.50	
	(1.8+7.8)	1	9.60			9.60	
	North side	1	2.20			2.20	
	East side	1	11.30			11.30	
	Approch to lake						
	North side (6+71.1+8)	1	85.10			85.10	
	south side	1	71.10			71.10	
	Children play area 1 approch						
	North side	1	19.00			19.00	
	south	1	23.30			23.30	
	East side	1	4.60			4.60	

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PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	children play area1 (inside)	2	10.30			20.60	
		2	15.60			31.20	
	children play area2 (inside)	2	14.50			29.00	
		2	12.00			24.00	
						429.30	
						954	No
	Pre-measurement Recorded on: 10/08/2021						
36.0	**Providing and laying heavy duty cobble stones 60mm thick interlock pavers,** using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS						
	Approch	1	3.05	2.10		6.41	
	North side	1	2.15	28.00		60.20	
	Children play area	1	1.50	2.60		3.90	
		1	4.60	2.15		9.89	
		1	2.40	19.22		46.13	
	Approch to Gym area 2	1	14.50	2.45		35.53	
		1	2.30	1.80		4.14	
	Approch to children play area 2	1	2.30	17.00		39.10	
	Children Play area 1	2	13.30	1.55		41.23	
		2	16.30	1.55		50.53	
	Children Play area 2	2	15.40	1.55		47.74	
		2	14.40	1.55		44.64	
						389.43	Sqm

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PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on: 28/07/2021						
20.0	**Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes,** using 50mm dia for verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged.						
	Gym area1-North	1	10.30		1.2	12.36	
	south	1	10.30		1.2	12.36	
	East	1	14.00		1.2	16.8	
	West	1	14.00		1.2	16.8	
	Gym area2-North	1	12.30		1.2	14.76	
	south	1	12.30		1.2	14.76	
	East	1	10.30		1.2	12.36	
	West	1	10.30		1.2	12.36	
						112.56	Sqm

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PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
	Pre-measurement Recorded on:						
22.00	**Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring** conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.						
	Gym area 1	1	13.90	10.00		139.00	
	Gym area 2	1	12.00	10.00		120.00	
						259.00	Sqm
	Pre-measurement Recorded on:						
37.00	**Supply & fixing of Pull Down Challenger** : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts must have built in						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
41.00	**Supply & fixing of Seated Chest Press :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts must have built in						
	Gym Equipment	2	—	—	—	2.00	Each

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Assistant Engineer Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
38.00	**Supply & fixing of Rider :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7207 to speed up corrosion for						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
39.00	**Supply & fixing of Self Weighted Rower :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to						
	Gym Equipment	2				2.00	Each

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Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
40.00	**Supply & fixing of Tai Chi Spinners :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement which						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
42.00	**Supply & fixing of HD Sit Up Station :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts must have built in limitors that prevent						
	Gym Equipment	2				2.00	Each

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Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
44.00	**Supply & fixing of HD Squat Pushing :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts must have built in						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
43.00	**Supply & fixing of HD Health Walker :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance						
	Gym Equipment	2				2.00	Each

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PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
45.00	**Supply & fixing of HD Mini Ski :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in sun salt						
	Gym Equipment	2				2.00	Each

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
46.00	**Supply & fixing of HD Waist Twister :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit
47.00	**Supply & fixing of Leg Stretch :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have						
	Gym Equipment	2				2.00	Each

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 11/08/2020						
3 (1)	**Earth work for lowering and levelling the ground other than foundation works by mechanical** means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required &utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification.(PWD BCSR 2018-19,P-8,I-2.24)						
	Childrens play area 1	1	15.00	15.00	1.00	225.00	
		2	13.00	0.90	0.60	14.04	
		2	20.90	0.90	0.60	22.57	
						261.61	cum
	Pre-measurement Recorded on: 16/08/2020						
	Earth work for lowering and levelling the ground other than foundation						
	Childrens play area 2	1	15.00	15.00	0.30	67.50	
		2	18.90	0.90	0.60	20.41	
		2	15.10	0.90	0.60	16.31	
						104.22	cum

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Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 3/06/2020						
1	**Earth work for lowering and levelling the ground other than foundation works by mechanical** means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required &utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical						
	Platform around Trees						
	Platform1	2	8.70	1.10	0.60	11.48	
		2	1.35	1.10	0.60	1.78	
	Platform2	2	5.60	1.10	0.60	7.39	
		2	1.60	1.10	0.60	2.11	
	Platform3	2	3.90	1.10	0.60	5.15	
		2	1.70	1.10	0.60	2.24	
	Platform4	2	3.60	1.10	0.60	4.75	
		2	1.40	1.10	0.60	1.85	
						36.76	cum

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Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 22/06/2020						
3	**Earth work for lowering and levelling the ground other than foundation works by mechanical** means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required &utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical						
	Near Big Gazebo-approch						
	west side (1.5+4)	1	5.50	0.25	0.30	0.41	
	(1.8+7.8)	1	9.60	0.25	0.30	0.72	
	North side	1	2.20	0.25	0.30	0.17	
	East side	1	11.30	0.25	0.30	0.85	
	Approch to lake						
	North side (6+71.1+8)	1	85.10	0.25	0.30	6.38	
	south side	1	71.10	0.25	0.30	5.33	
	Children play area 1 approch						
	North side	1	19.00	0.25	0.30	1.43	
	south	1	23.30	0.25	0.30	1.75	
	East side	1	4.60	0.25	0.30	0.35	
	children play area1 (inside)	2	10.30	0.25	0.30	1.55	
		2	15.60	0.25	0.30	2.34	
	children play area2 (inside)	2	14.50	0.25	0.30	2.18	
		2	12.00	0.25	0.30	1.80	
						25.24	cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 06/09/2021						
3	**Earth work for lowering and levelling the ground other than foundation works by mechanical** means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required &utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification.(PWD BCSR 2018-19,P-8,I-2.24)						
	PIPE	1	10.00	1.20	0.30	3.60	
		1	12.50	1.20	0.30	4.50	
	Chamber 1	1	2.40	2.40	0.30	1.73	
	Chamber 2	1	2.40	2.40	0.30	1.73	
						11.56	cum
	Pre-measurement Recorded on: 06/09/2021						
6.0	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Childrens play area 1						
	2(13.9+20)	2	13.00	0.90	0.15	3.51	
		2	20.90	0.90	0.15	5.64	
						9.15	cum
	Pre-measurement Recorded on: 06/09/2021						
6.0	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Childrens play area 2						
	2*(18+16)	2	18.90	0.90	0.15	5.10	
		2	15.10	0.90	0.15	4.08	
						9.18	cum

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 22/08/2020						
6.0	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Platform around Trees						
	Platform1	2	8.70	1.10	0.15	2.87	
		2	1.35	1.10	0.15	0.45	
	Platform2	2	5.60	1.10	0.15	1.85	
		2	1.60	1.10	0.15	0.53	
	Platform3	2	3.90	1.10	0.15	1.29	
		2	1.70	1.10	0.15	0.56	
	Platform4	2	3.60	1.10	0.15	1.19	
		2	1.40	1.10	0.15	0.46	
						9.19	cum
	Pre-measurement Recorded on: 22/08/2020						
8.0	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification .P-23, ITEM 5.9						
	Childrens play area 1						
		2	13.20	0.70	0.45	8.32	
		2	20.70	0.70	0.45	13.04	
	2nd course	2	13.45	0.50	0.60	8.07	
		2	20.45	0.50	0.60	12.27	
						41.70	cum

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BU-TECH PMC BANGALORE

Assistant Engineer
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Verified & found OK

20/8/20

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 30/09/2020						
8.0	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification .P-23, ITEM 5.9						
	Childrens play area 2						
		2	18.70	0.70	0.45	11.78	
		2	15.30	0.70	0.45	9.64	
	2nd course	2	18.70	0.50	0.60	11.22	
		2	15.30	0.50	0.60	9.18	
						41.82	cum

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30/9/20

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 15/06/2020						
8.0	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specification .P-23, ITEM 5.9						
	Platform around Trees						
	Platform1	2	8.50	0.90	0.45	6.89	
		2	1.55	0.90	0.45	1.26	
	2nd course	2	8.20	0.60	0.45	4.43	
		2	1.85	0.60	0.45	1.00	
	Platform2 2(2.5+2.5)	2	5.40	0.90	0.45	4.37	
		2	1.80	0.90	0.45	1.46	
	2nd course	2	5.10	0.60	0.45	2.75	
		2	2.10	0.60	0.45	1.13	
	Platform3 2(2.8+2.8)	2	3.70	0.90	0.45	3.00	
		2	1.90	0.90	0.45	1.54	
	2nd course	2	3.40	0.60	0.45	1.84	
		2	2.20	0.60	0.45	1.19	
	Platform4 2(4.5+2.7)	2	3.40	0.90	0.45	2.75	
		2	1.60	0.90	0.45	1.30	
	2nd course	2	3.10	0.60	0.45	1.67	
		2	1.90	0.60	0.45	1.03	
						37.60	cum
	Pre-measurement Recorded on: 15/06/2020						
8.0	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification .P-23, ITEM 5.9						
	Chamber 1	2	1.2	0.2	1.8	0.86	
		2	0.8	0.2	1.8	0.58	
	Chamber 2	2	1.2	0.2	1.8	0.86	
		2	0.80	0.20	1.80	0.58	
						2.88	cum

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on:						
15.0	**Providing ruled pointing to coursed stone masonry with cement mortar 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining including cost of materials, labour, curing complete as per specifications .P-113, I 15.4						
	Childrens play area 1'	2	13.30		0.45	11.97	
		2	20.60		0.45	18.54	
	Childrens play area 2	2	16.60		0.45	14.94	
		2	17.40		0.45	15.66	
	Tree platform						
	Platform1	2	8.20		0.45	7.38	
		2	3.05		0.45	2.75	
	Platform2	2	3.10		0.45	2.79	
		2	3.10		0.45	2.79	
	Platform3	2	3.40		0.45	3.06	
		2	3.40		0.45	3.06	
	Platform4	2	3.30		0.45	2.97	
		2	5.10		0.45	4.59	
	Chamber 1	2	1.20		1.80	4.32	
		2	1.20		1.80	4.32	
	Chamber 2	2	1.20		1.80	4.32	
		2	1.20		1.80	4.32	
						107.78	Sq.m

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 10.08.24						
9	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	Near Big Gazebo-approch						
	West side (1.5+4)	1	5.50	0.45	0.10	0.25	
	(1.8+7.8) =9.60	1	9.60	0.45	0.10	0.43	
	North side	1	2.20	0.45	0.10	0.10	
	East side	1	11.30	0.45	0.10	0.51	
	Approch to lake						
	North side (6+71.1+8)	1	85.10	0.45	0.10	3.83	
	south side	1	71.10	0.45	0.10	3.20	
	Children play area 1 approch						
	North side	1	19.00	0.45	0.10	0.86	
	south	1	23.30	0.45	0.10	1.05	
	East side	1	4.60	0.45	0.10	0.21	
	children play area1 (inside)	2	10.30	0.45	0.10	0.93	
	"	2	15.60	0.45	0.10	1.40	
	children play area2 (inside)	2	14.50	0.45	0.10	1.31	
	"	2	12.00	0.45	0.10	1.08	
	Childrens play area 1						
	Coping on walls	2	13.45	0.45	0.10	1.21	
		2	20.45	0.45	0.10	1.84	
	Childrens play area 2						
	Coping on walls	2	18.7	0.45	0.10	1.68	
		2	15.3	0.45	0.10	1.38	

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Tree platform coping						
	Platform1	2	8.2	0.6	0.10	0.98	
		2	1.85	0.6	0.10	0.22	
	Platform2	2	5.1	0.6	0.10	0.61	
		2	2.1	0.6	0.10	0.25	
	Platform3	2	3.4	0.6	0.10	0.41	
		2	2.2	0.6	0.10	0.26	
	Platform4	2	3.1	0.6	0.10	0.37	
		2	1.9	0.6	0.10	0.23	
	Yoga platform (Cobble stone)						
	Approch	1	3.05	2.10	0.15	0.96	
	North side	1	2.15	28.00	0.15	9.03	
	Children play area	1	1.50	2.60	0.15	0.59	
		1	4.60	2.15	0.15	1.48	
		1	2.40	19.22	0.15	6.92	
	Approch to Gym area 2	1	14.50	2.45	0.15	5.33	
		1	2.30	1.80	0.15	0.62	
	Approch to children play area 2	1	2.30	17.00	0.15	5.87	
	PIPE	1	10.00	1.20	0.15	1.80	
		1	12.50	1.20	0.15	2.25	
	Chamber1	1	1.80	1.80	0.15	0.49	
	Chamber2	1	1.80	1.80	0.15	0.49	
						60.41	cum
	Pre-measurement Recorded on: 10.08.2021						
26.0	**Natural Sand** 5.6 to 75 microns						
	Children play area 1	1	9.90	16.00	0.45	71.28	
	Children play area 2	1	12.1	14.1	0.45	76.77	
						148.05	**cum**

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 13/07/2021						
17.0	Providing and laying plat form using prepolished, water cut / gang saw **40mm thick telephonic Black Granite**. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P W D SR 2018-19, P-110 I-14.52)						
	Platform around Trees						
	Platform1	2	8.2	0.6		9.84	
		2	1.9	0.6		2.22	
	Platform2	2	5.1	0.6		6.12	
		2	2.1	0.6		2.52	
	Platform3	2	3.4	0.6		4.08	
		2	2.2	0.6		2.64	
	Platform4	2	3.1	0.6		3.72	
		2	1.9	0.6		2.28	
						33.42	SQM

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 10.08.21						
13.0	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.						
	Walkways						
	Near Big Gazebo-approch						
	West side (1.5+4)	1	5.50	0.40	0.30	0.66	
	(1.8+7.8)	1	9.60	0.40	0.30	1.15	
	North side	1	2.20	0.40	0.30	0.26	
	East side	1	11.30	0.40	0.30	1.36	
	Approch to lake						
	North side (6+71.1+8)	1	85.10	0.40	0.30	10.21	
	south side	1	71.10	0.40	0.30	8.53	
	Children play area 1 approch						
	North side	1	19.00	0.40	0.30	2.28	
	south	1	23.30	0.40	0.30	2.80	
	East side	1	4.60	0.40	0.30	0.55	
	children play area1 (inside)	2	10.30	0.40	0.30	2.47	
	" "	2	15.60	0.40	0.30	3.74	
	children play area2 (inside)	2	14.50	0.40	0.30	3.48	
		2	12.00	0.40	0.30	2.88	
						40.38	Cum
	Pre-measurement Recorded on: 10.08.21						
49.0	**Supply and fixing of childern Play Equipment Fiero A Swing :** Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site.						

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each
50.0	**Supply and fixing of childern Play Equipment Monker Bar VFM Support posts of height 1.82 m are to be schedule Galvanized steel with a 60 mm OD {Outer Diameter}.**All the posts are to be finished with a baked on powder coat finish. Handrail of size 1.3 m and Dia 48 mm shall be an welded unit, fabricated from 48 O.D. galvanized steel pipes with a baked on powder coating finish. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be of tamper resistant stainless steel. Electro - statically applied polyester powder must have a tough finish with maximum durability. The rates are to be inclusive of supply and installation at site.						
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each
51.00	Supply and fixing of childern Play Equipment **Four Seater Seesaw** : SPECIFICATIONS The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 4 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site.						
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
52.00	**Supply and fixing of childern Play Equipment Merry go round - DX : The Merry go round consists of a round platform which is made of galvanized steel** and has a thickness of 2.5 mm. It is also power coated with the thickness of 2.5 mm. It is of Dia 1210 mm. It has 3 inverted "L" shaped handrails which is made of Galvanized steel and of dimensions as 474 mmx 815 mm. It has thickness of Dia 32 mm. The 3 handrails are separated exactly. All the 3 handrails are connected to the Centre with the help of a rod which is also made of Galvanized steel and of Dia 48 mm and height 815 mm. The rates are to be inclusive of supply and installation at site.						
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each
53.00	**Supply and fixing of childern Play Equipment Puppy dog Rider / Elephant rider / Horse rider** : : HDPE of size 0.83 m x 0.31 m x 0.87 m, Plastic Components [super thick plastic] shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with "color molded" in not "added in". All rotational molding is carried out in state of the art, precision, bi axial roto moulding machines which helps achieve guaranteed uniform wall thickness, seamless joints, accurate process control, one part construction to make it stress free. Specialized connectors such as clamps and couplings are to be cast from aluminium which is pre-treated, and cured, with a baked on powder coat finish.The rates are to be inclusive of supply and installation at site.						
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each

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PROVIDING CHILDREN PLAY EQUIPMENTS

Item No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT
54.00	**Supply and fixing of childern Play Equipment Creppy Crawly climber: The wavey support bars are of height 1.5 m are to be schedule HOT DIP Galvanized steel with a 48 mm OD.** Powder coatings used is Akzo Nobel's. The finished products have the following typical characteristics: 0.5mm thickness, oven cured between 191oC and 220oC, to achieve Flexibility, Impact, Salt Spray {Corrosion} Resistance, Hardness, and Adhesion. All post caps are to be cast from aluminum which is pretreated, cured and sandblasted, 114mm diameter, with a baked on powder coat finish.Handrail of height Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. The Electro- statically applied polyester powder has a tough finish with maximum durability using AkzoNobel INTERPON paints application, and dual zone cure oven to a thickness of 0.5mm thickness, oven cured between 191oC and 220oC. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as per EN1176 standards as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well.The rates are to be inclusive of supply and installation at site.						
	Children Play Equipment	2	—	—	—	2.00	
						2.00	Each

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CONSTRUCTION OF RETAINING WALL AND CHAIN LINK FENCING, at Doddabommasandra Lake after demolition @ wastewall

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 24/08/2021						
1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil. (PWD BCSR 2018-19,P-7,I-2.23)						
	Chain link fencing-West	1	49.00	1.50	1.50	110.25	
	south	1	14.10	1.50	1.50	31.73	
	Retaining wall-East	1	36.10	3.80	1.50	205.77	
						347.75	Cum
	Pre-measurement Recorded on: 25/08/2021						
5	**Providing and Filling in foundation with granite/trap broken metal 100 mm** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications (PWD BCSR 2018-19,P-6,I-2.15)						
	Retaining wall	1	36.10	3.80	0.30	**41.15**	Cum

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CONSTRUCTION OF RETAINING WALL AND CHAIN LINK FENCING, at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 21/08/2021						
6	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 c						
	Chain link fencing	1	49.00	1.50	0.15	11.03	
		1	14.00	1.50	0.15	3.15	
						14.18	Cum

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	CONSTRUCTION OF RETAINING WALL AND CHAIN LINK FENCING, at Doddabommasandra Lake						
Item No	***SPECIFICATIONS***	***No***	***L***	***B***	***D***	***QUANTITY***	***UNIT***
	Pre-measurement Recorded on:28/08/2021						
9	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD BCSR 208-19.						
	Retaining wall	1	36.10	3.80	0.15	20.58	
						20.58	Cum

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CONSTRUCTION OF RETAINING WALL AND CHAIN LINK FENCING, at Doddabommasandra Lake

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 7/09/2021						
10	**Providing and laying in position reinforced cement concrete of Design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per						
	Retaining wall-Stem	1	36.10	0.28	3.80	37.72	
	Base Slab	1	36.10	3.50	0.50	63.18	
	Shear key	1	36.10	0.30	0.30	3.25	
						104.15	cum

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	Pre-measurement Recorded on: 23/08/2021						
10	**Providing and laying in position reinforced cement concrete of Design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (PWD BCSR 2018-19,P-13,I-4.10)						
	Chamber cover	2	1.80	1.80	0.13	0.81	
	Chain link fencing-Footing	1	15.00	1.20	0.30	5.40	
		1	15.00	1.20	0.30	5.40	
		1	19.00	1.20	0.30	6.84	
		1	14.00	1.20	0.30	5.04	
	Wall (1.05+0.45)	1	15.00	0.25	1.50	5.63	
		1	15.00	0.25	1.50	5.63	
		1	19.00	0.25	1.50	7.13	
		1	14.00	0.25	1.50	5.25	
						47.12	cum
	Pre-measurement Recorded on: 22/08/2021						
11	**Providing T.M.T. steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS for TMT Bars Fe 550 (P W D BCSR, 2018-19 P-17, I-4.46.3)						
	Chamber Cover	as per P.No	93			0.04	
	Chain link fencing	as per P.No	95			2.81	
						2.850	tonne

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	Pre-measurement Recorded on: 02/09/2021						
11	**Providing T.M.T. steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS for TMT Bars Fe 550 (P.W.D-BCSR 2018-19						
	Retaining wall					8.31	
						8.310	tonne
	Pre-measurement Recorded on: 05/09/2021						
12	**Providing and removing centering, shuttering, strutting, propping etc.,** and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2						
	Retaining wall						
	Stem	2	15.00		3.80	114.00	
		2	15.00		3.80	114.00	
		2	6.10		3.80	46.36	
						274.36	sqm

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	Pre-measurement Recorded on: 23/08/2021						
12	**Providing and removing centering, shuttering, strutting, propping etc.,** and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(PWD BCSR 2018-19,P-15,I-4.31)						
	Chain link fencing- Wall	2	15.00		1.50	45.00	
		2	15.00		1.50	45.00	
		2	19.00		1.50	57.00	
		2	14.00		1.50	42.00	
						189.00	sqm

	Pre-measurement Recorded on: 3/9/21						
13	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications						
	Chain link fencing	2	15.00	0.63	1.05	19.69	
		2	15.00	0.63	1.05	19.69	
		2	19.00	0.63	1.05	24.94	
		2	14.00	0.63	1.05	18.38	
	Surrounding Kogilu lake (Irrigation Pipe Line)	1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	

continued

BU-TECH PMC BANGALORE

CONTRACTOR CONSULTANT Assistant Engineer Lakes, BBMP Assistant Executive Engineer Lakes, BBMP

		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	

CONTRACTOR CONSULTANT

Assistant Engineer Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	24.00	0.60	0.75	10.80	
						1348.99	cum

BU-TECH PMC BANGALORE

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Assistant Engineer
Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
EI-11	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing, including cost of materials, labour, HOM complete as per specifications. 900mm. dia						
	Pipeline	1	10.00			10.00	
		1	7.50			7.50	
						17.50	m

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Assistant Executive Engineer Lakes. BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
EI-8	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of materials, labour, HOM complete as per specifications.						
	Chain link fencing (1.5+0.6)					54.60	
	Retaining wall					31.50	
						86.10	m
EI-9	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.						
	Chain link fencing	3	15.00			45.00	
		3	15.00			45.00	
		3	19.00			57.00	
		3	14.00			42.00	
	Retaining wall	3	15.00			45.00	
		3	15.00			45.00	
		3	6.10			18.30	
						297.30	
						297.30	m
EI-10	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.						
	Chain link fencing	1	15.00	1.50		22.50	
		1	15.00	1.50		22.50	
		1	19.00	1.50		28.50	
		1	14.00	1.50		21.00	
	Retaining wall	1	15.00	1.50		22.50	
		1	15.00	1.50		22.50	
		1	6.10	1.50		9.15	
						148.65	Sqm

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Assistant Engineer
Lakes. BBMP

Asst. Executive Engineer

Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
EI-6	Providing and installing of approved make pre painted Galvalume iron Accessories, like, plain, ridges, plain gutter, plain flashing, corner Trim, etc The total coated thickness (TCT) of the sheet shall be 0.47 mm +/- 0.02 tolerance mm Zinc-Alu Alloy coating AZ 150 gsm as per ASTM 1397/755 -550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling / self tapping screws of 25 mm length. (width upto 500-600 mm only), to be fixed over the existing purlins, rafters, channels and trusses.						
	Yoga platform (0.3+0.3+0.3)	1	0.90	18.70		16.83	
						16.83	sqm
EI-7	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per specification						
	Coping slab						
	Yoga platform 2*(18.7)	2	37.40			74.80	
	(12.1*2)	2	24.20			48.40	
	Gazebo (2*31.142*4.03)	2	30.00			60.00	
	Gazebo small 1(6*3.45)-(1.5)	2	19.20			38.40	
	Gazebo small 2(6*3.45)-(1.5)	2	19.20			38.40	
	Gazebo small 3(6*3.45)-(1.5)	2	19.20			38.40	
	Seating						
	Yoga platform Seating-South	1	17.60			17.60	
	West side	1	12.10			12.10	
	Gazebo small 1	5	3.30			16.50	
	Gazebo small 2	5	3.30			16.50	
	Gazebo small 3	5	3.30			16.50	
	Gazebo big	1	28.50			28.50	
	Platform around Trees						
	Platform1	2	8.20			16.40	
		2	1.85			3.70	
	Platform2	2	5.10			10.20	
		2	2.10			4.20	
	Platform3	2	3.40			6.80	
		2	2.20			4.40	
	Platform4	2	3.10			6.20	
		2	1.90			3.80	
						461.80	m

BU-TECH PMC BANGALORE

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Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
EI-4	Providing and applying spray painting (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give evenshade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as perspecifications.spray painting in two coat.						
	Walk ways:						
	Near Big Gazebo-approch						
	west side (1.5+4)	1	0.75		5.50	4.13	
	(1.8+7.8)	1	0.75		9.60	7.20	
	North side	1	0.75		2.20	1.65	
	East side	1	0.75		11.30	8.48	
	Approch to lake						
	North side (6+71.1+8)	1	0.75		85.10	63.83	
	south side	1	0.75		71.10	53.33	
	Children play area 1 approch						
	North side	1	0.75		19.00	14.25	
	south	1	0.75		23.30	17.48	
	East side	1	0.75		4.60	3.45	
	children play area1 (inside)	2	0.75		10.20	15.30	
		2	0.75		16.30	24.45	
	children play area2 (inside)	2	0.75		14.40	21.60	
		2	0.75		12.40	18.60	
						253.73	Sqm
EI-5	Providing casing embankment using semi-pervious soil from approved borrow areas in layers of 250 to 300 mm before compaction including cost of all materials, machinery, labour, all other operations such as excavation, sorting out, transportation, spreading soil to specified thickness, breaking clods, sectioning, watering, compacting to density control of not less than 95 percent using power roller etc., complete with initial lead all lifts. (MI BCSR 2018-19.P-35,I-2.36)						
	Walk ways:						
	Near Big Gazebo-approch						
	west side (1.5+4)	1	5.50	2.50	0.30	4.13	
	(1.8+7.8)	1	9.60	2.50	0.30	7.20	
	North side	1	2.20	2.50	0.30	1.65	
	East side	1	11.30	2.45	0.30	8.31	
	Approch to lake						
	North side (6+71.1+8)	1	85.10	4.90	0.30	125.10	
	south side	1	71.10	4.90	0.30	104.52	
	Children play area 1 approch						
	North side	1	19.00	2.40	0.30	13.68	
	south	1	23.30	2.40	0.30	16.78	
	East side	1	4.60	2.30	0.30	3.17	
	children play area1 (inside)	2	10.30	1.55	0.30	9.58	
		2	15.60	1.55	0.30	14.51	
	children play area2 (inside)	2	14.50	1.55	0.75	33.71	
		2	12.00	1.55	0.75	27.90	
						370.22	Cum

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Assistant Engineer
Lakes. BBMP

87

Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 24/08/2021						
EI-1	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil notexceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m.including breaking of clods complete as per specifications.in ordinary soil.						
	Surrounding Kogilu lake (Irrigation Pipe Line)	1	30.00	0.60	0.75	13.50	
	Main Line Excavation	1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	

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CONTRACTOR CONSULTANT BU-TECH PMC BANGALORE Assistant Engineer Lakes. BBMP Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
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		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	

continued..

BU-TECH PMC BANGALORE

CONTRACTOR CONSUTANT

Assistant Engineer Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	30.00	0.60	0.75	13.50	
		1	24.00	0.60	0.75	10.80	
						1266.30	cum

Add to
1111E.16

BU-TECH PMC BANGALORE

CONTRACTOR CONSUTANT

Assistant Engineer
Lakes. BBMP

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Assistant Executive Engineer Lakes, BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
	Pre-measurement Recorded on: 24/08/2021						
EI-2	Providing and removing centering, shuttering, strutting, propping & removal of form work etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.						
	Chain link fencing-Footing	2	15.00		0.30	9.00	
		2	15.00		0.30	9.00	
		2	19.00		0.30	11.40	
		2	14.00		0.30	8.40	
	Retaining wall					0.00	
	Base slab	2	15.00		0.50	15.00	
		2	15.00		0.50	15.00	
		2	6.10		0.50	6.10	
	shear key	2	15.00		0.30	9.00	
		2	15.00		0.30	9.00	
		2	6.10		0.30	3.66	
						95.56	sqm
EI-3	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.						
	Walk ways:						
	Near Big Gazebo-approch						
	west side (1.5+4)	1	0.75		5.50	4.13	
	(1.8+7.8)	1	0.75		9.60	7.20	
	North side	1	0.75		2.20	1.65	
	East side	1	0.75		11.30	8.48	
	Approch to lake						
	North side (6+71.1+8)	1	0.75		85.10	63.83	
	south side	1	0.75		71.10	53.33	
	Children play area 1 approch						
	North side	1	0.75		19.00	14.25	
	south	1	0.75		23.30	17.48	
	East side	1	0.75		4.60	3.45	
	children play area1 (inside)	2	0.75		10.20	15.30	
		2	0.75		16.30	24.45	
	children play area2 (inside)	2	0.75		14.40	21.60	
		2	0.75		12.40	18.60	
						253.73	sqm

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Assistant Engineer Lakes. BBMP

Verified & found to be correct

Assistant Executive Engineer Lakes, BBMP

91

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT

REINFORCEMENT STEEL MEASUREMENT

Item No	Description	Dia in mm	Spacing mm	Nos	No. Of Bars	Cutting Length	Legnth of Bars in METER					Units
							8mm	10mm	12mm	16mm	20mm	
11	**Providing T.M.T. steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS for TMT Bars											
a	**YOGA PLATFORM-Footing Mat**											
	X direction	10	150	10	9	1.30		117.00				
	Y direction	10	150	10	9	1.30		117.00				
b	**Pedestal**											
	Main bars (1.35+0.45+0.4+0.4)	16		10	12	2.50				300.00		
	Lateral Ties (1.35+0.4)/0.125											
	2*((2*0.6+2*0.3)+.1)	8	125	10	15.00	3.80	570.00					
	(0.6+0.6+0.1+0.1)	8	125	10	15.00	1.40	210.00					
c	**Plinth Beam**	16		2	4	18.66				149.28		
		16		2	4	12.76				102.08		
	Stirrups											
	18.46/0.125	8	125	2	148	1.60	473.60					
	12.56/0.125	8	125	2	101	1.6	323.20					
						TOTAL LENGTH OF BARS IN M	1576.80	234.00	0.00	551.36	0.00	
						WEIGHT OF BARS PER METER LEGNTH	0.39	0.62	0.89	1.58	2.47	
						WEIGHT OF BARS IN MT	**0.61**	**0.15**	**0.00**	**0.87**	**0.00**	
						TOTAL	**0.61**	**0.15**	**0.00**	**0.87**	**0.00**	
						TOTAL WEIGHT STEEL BARS IN MT	**1.63**					**MT**

BU-TECH PMC BANGALORE

AE

Asst. Exe Engineer

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT

REINFORCEMENT STEEL MEASUREMENT

Item No	Description	Dia in mm	Spacing mm	Nos	No. Of Bars	Cutting Length	Legnth of Bars in METER					Units
							8mm	10mm	12mm	16mm	20mm	
d	Chamber Cover	8		2	14	1.8	50.40					
		8		2	14	1.8	50.40					
						TOTAL LENGTH OF BARS IN M	100.80	0.00	0.00	0.00	0.00	
						WEIGHT OF BARS PER METER LEGNTH	0.39	0.62	0.89	1.58	2.47	
						WEIGHT OF BARS IN MT	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	
						TOTAL	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	
						TOTAL WEIGHT STEEL BARS IN MT	**0.04**					**MT**

BU-TECH PMC BANGALORE

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT

REINFORCEMENT STEEL MEASUREMENT

Item No	Description	Dia in mm	Spacing mm	Nos	No. Of Bars	Cutting Length	Legnth of Bars in METER					Units
							8mm	10mm	12mm	16mm	20mm	
e	**Retaining wall**											
	Stem											
	Main bars (36.1/0.125)	16	125	1	145	5.4	-	-	-	783.00	-	
		16	125	1	145	5.7	-	-	-	826.50	-	
		12	125	1	287	5.3	-	-	1521.10	-	-	
	Distribution	10	150	1	29	36.1	-	1046.90	-	-	-	
		10	150	1	29	36.1	-	1046.90	-	-	-	
	Base slab						-	-	-	-	-	
	Bottom Reinforcment	12	125	1	287	4	-	-	1148.00	-	-	
	distribution	10	150	1	24	36.1	-	866.40	-	-	-	
	Top reinforcement	12	125	1	287	4	-	-	1148	-	-	
	distribution	10	150	1	24	36.1	-	866.40	-	-	-	
						TOTAL LENGTH OF BARS IN M	0.00	3826.60	3817.10	1609.50	0.00	
						WEIGHT OF BARS PER METER LEGNTH	0.39	0.62	0.89	1.58	2.47	
						WEIGHT OF BARS IN MT	**0.00**	**2.37**	**3.40**	**2.54**	**0.00**	
						TOTAL	**0.00**	**2.37**	**3.40**	**2.54**	**0.00**	
						TOTAL WEIGHT STEEL BARS IN MT			**8.31**			**MT**

BU-TECH PMC BANGALORE

Chd. Ex fe

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT

REINFORCEMENT STEEL MEASUREMENT

Item No	Description	Dia in mm	Spacing mm	Nos	No. Of Bars	Cutting Length	Legnth of Bars in METER					Units
							8mm	10mm	12mm	16mm	20mm	
f	Chain Link Fencing											
	Footing Mat											
	Bottom Reinforcment short direction	10		1	5	63		315.00	-	-	-	
	Long directin	10		1	421	1.35		568.35	-	-	-	
	Wall	12		2	421	2.1	-	-	1768.2	-	-	
	Distribution	8		2	14	63	1764.00	-	-	-	-	
	TOTAL LENGTH OF BARS IN M						1764.00	883.35	1768.20	0.00	0.00	
	WEIGHT OF BARS PER METER LEGNTH						0.39	0.62	0.89	1.58	2.47	
	WEIGHT OF BARS IN MT						0.69	0.55	1.57	0.00	0.00	
	TOTAL						0.69	0.55	1.57	0.00	0.00	
	TOTAL WEIGHT STEEL BARS IN MT						2.81					MT

BU-TECH PMC PRE

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Truss details

Sl no.	Description	NO.	L	B	Qty	W	QNTY
b	**Gazebo Big**						
	MS tubular circular section 150mm dia 8mm thk	8	4.00			29.6 kg/mtr	**947.20**
	Horizontal bars150 x 50, 6mm thick	8	2.70			18.84 Kg/Mtr	**406.94**
	Rafter 100 x 50 x 6mm thk	8	5.80			14.13 Kg/Mtr	**655.63**
	Rafter 100 x 50 x 6mm thk	8	5.63			14.13 Kg/Mtr	**636.42**
	Purlins (50 x 25 x 4mm)	8	38.15			4.71 Kg/mtr	**1437.49**
	Top Gusset Plate 8mm thk	2	0.17	0.17		62.8 kg/mtr2	**3.72**
	12mm Gusset Plates	8	0.30	0.30		94.2 kg/mtr2	**68.73**
	Angle plate below seating	1	20.60			3.0 kg/mtrs	**61.80**
	Total						**4217.93**
c	**Gazebo Small (3 nos)**						
	MS tubular circular section 150mm dia 8mm thk (6*3)	18	3.75			29.6 kg/mtr	**1998.00**
	Horizontal bars ISMC150 (6*3)	18	3.30			18.84 Kg/Mtr	**1119.10**
	Rafter 100 x 50 x 6mm thk (12*3)	36	4.40			14.13 Kg/Mtr	**2238.19**
	Purlins (50 x 25 x 4mm) (6*3)	18	37.08			4.71 Kg/mtr	**3143.64**
	Top Gusset Plate 8mm thk (2*3)	6	0.17	0.17		62.8 kg/mtr2	**11.15**
	Gusset Plates 12mm thk (6*3)	18	0.30	0.30		94.2 kg/mtr2	**156.70**
	Angle plate below seating (5*3)	15	3.30			3.0 kg/mtrs	**148.50**
	Total						**8815.28**
							~~23192.00~~
						~~**23192.00 kg**~~	

BU-TECH PMC BANGALORE

Chd. E/e

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Truss details

Sl no.	Description	NO.	L	B	Qty	W	QNTY
a	**Yoga platform:**						
	20mm Dia Anchor Bolt with Nuts	80.00	1.39			2.47 Kg/Mt	**274.66**
	Circular Hollow section 150mm dia 8mm thick (10nos.)	10	4.00			29.6 kg/mtr	**1184.00**
	Yoga platform Truss 100 X 50mm x 6mm thick						
	Straight	5	13.41		67.05		
	Angle	10	6.90		69.00		
	Mid straight truss	5	1.52		7.60		
	straigth truss (both sides) a	10	1.32		13.20		
	b	10	1.12		11.20		
	c	10	0.91		9.10		
	d	10	0.71		7.10		
	e	10	0.50		5.00		
	f	10	0.40		4.00		
	g	10	0.30		3.00		
	Tie members (both sides) a	10	1.72		17.20		
	b	10	1.58		15.80		
	c	10	1.44		14.40		
	d	10	1.32		13.20		
	e	10	1.23		12.30		
					269.15		
					269.15	14.13 kg/Mtr	**3803.09**
	Purlins (100 x 50 x 6mm)	14	18.70			14.13 Kg/Mtr	**3699.23**
	Plate:						
	16 mm Connecting Footing	20	0.46	0.46		125.6 kg/mtr2	**524.63**
	20mm Top Plates	10	0.61	0.61		157.0 kg/mtr2	**582.28**
	Angle below seating (ISA 5050 4mmthk)	1	18.20			3 kg/mtrs	**54.60**
		1	12.10			3 kg/mtrs	**36.30**
	Total						**10158.80**

BU-TECH PMC BANGALORE

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,LAKE

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
29	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete, 32mm nominal OD pipes with all lead and lift as directed by engineer-in-charge of work						
	Raisers	15	1.2			18	
		12	1.2			14.4	
		15	1.2			18	
		12	1.2			14.4	
		12	1.2			14.4	
		15	1.2			18	
		12	1.2			14.4	
		15	1.2			18	
		12	1.2			14.4	
		12	1.2			14.4	
		12	1.2			14.4	
		15	1.2			18	
		11	1.2			13.2	
		15	1.2			18	
						222	m
30	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete, 50mm nominal OD pipeswith all lead and lift as directed by engineer-in-charge of work						
	Surrounding Kogilu lake (Irrigation Pipe Line)	1	30.00			30	
	Main Line	1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	

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BU-TECH PMC BANGALORE

Assistant Engineer
Lakes. BBMP

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,LAKE

Item No	***SPECIFICATIONS***	***No***	***L***	***B***	***D***	***QUANTITY***	***UNIT***
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
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		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	

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Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

	WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,LAKE						
Item No	***SPECIFICATIONS***	***No***	***L***	***B***	***D***	***QUANTITY***	***UNIT***
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
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		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	

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Assistant Engineer
Lakes. BBMP

-100-

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,LAKE

Item No	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	30.00			30	
		1	24.00			24	
						2814	Mtr

BU-TECH PMC BANGALORE

CONTRACTOR CONSUTANT

Assistant Engineer
Lakes. BBMP

verified & found ok

10/8/14

Assistant Executive Engineer Lakes, BBMP

Excel Measurement Sheet

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

	WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,LAKE						
Item No	***SPECIFICATIONS***	***No***	***L***	***B***	***D***	***QUANTITY***	***UNIT***
	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS						
31	GATE VALUE(32MM Dia) For Kogilu Lake,agrahara, Chokkanahallli	5				**5.00**	nos
32	GATE VALUE(50MM Dia) For Kogilu Lake,agrahara, Chokkanahallli	5				**5.00**	nos

BU-TECH PMC BANGALORE

CONTRACTOR CONSUTANT

Assistant Engineer
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Assistant Executive Engineer Lakes, BBMP